

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of )  
Marc Airiau et al. ) Group Art Unit:  
Application No.: ) Examiner:  
Filed: Herewith ) Confirmation No.:  
For: MESOSTRUCTURED MATERIALS )  
INTEGRATING NANOMETRIC )  
CRYSTALLINE PARTICLES )  
COMPRISING A METAL IN SOLID )  
SOLUTION WITHIN THEIR )  
CRYSTALLINE LATTICE (AS )  
AMENDED)

**FIRST INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

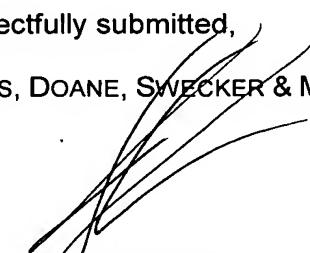
In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date July 21, 2004

By:   
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**Comments if Known**

10/501985

Substitute for form 1449A/PTO & 1449B/PTO													
<p style="text-align: center;"><b>FIRST</b>  <b>INFORMATION DISCLOSURE</b>  <b>STATEMENT BY APPLICANT</b></p> <p style="text-align: center;">(use as many sheets as necessary)</p>													
		<p style="text-align: center;"><i>Complete if Known</i></p> <table border="1"> <tr> <td>Application Number</td> <td>10/501985</td> </tr> <tr> <td>Filing Date</td> <td>Herewith</td> </tr> <tr> <td>First Named Inventor</td> <td>Marc AIRIAU et al.</td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>022702-099</td> </tr> </table>		Application Number	10/501985	Filing Date	Herewith	First Named Inventor	Marc AIRIAU et al.	Examiner Name		Attorney Docket Number	022702-099
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Sheet	1	of	1										

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

## NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	MULUKUTLA R. S. et al., "Nanoparticles of Rh <sub>0</sub> <sub>x</sub> in the MCM-41: a novel catalyst for NO-CO reaction in excess O <sub>2</sub> ", Scripta Materialia, Elsevier, New York, NY, US., Vol. 44, No. 8-9, May 18, 2001, pages 1695-1698, XP004327634, ISSN: 1359-6462.
	MOLLER K. et al., "Inclusion Chemistry in Periodic Mesoporous Hosts", Chemistry of Materials, American Chemical Society, Washington, US, Vol 10, No. 10, October 1, 1998, pages 2950-2963, XP000782396, ISSN: 0897-4756, *pages 2952, 2953 "2.4 Oxide and sulfide clusters"*
	ARONSON B. J. et al., "Solutions-Phase Grafting of Titanium Dioxide onto the Pore Surface of Mesoporous Silicates: Synthesis and Structural Characterization", Chemistry of Materials, American Chemical Society, Washington, US, Vol. 9, No., 12, December 1, 1997, pages 2842-2851, XP000729213, ISSN: 0897-4756, pages 2842-2843.
	DAPURKAR S. E. et al., "Nanosized metal oxides in the mesopores of MCM-41 and MCM-48 Silicates", Catal Today; Catalysis Today, July 1, 2001, Vol. 68, No. 1-3, July 1, 2001, pages 63-68, XP002217205
	KOEHN R. et al., "Iron(III) Oxide Within Mesoporous MCM-48 Silica Phases: Synthesis and Characterization", Materials Research Society Symposium Proceedings, Materials Research Society Pottsburg, PA, US, Vol. 547, 1999, pages 81-86, XP000921383, ISSN: 0272-9172.

\* COPY ATTACHED

Examiner Signature		Date Considered	
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**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.